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USSR/Chemical Technology - Chemical Products and Their

I-14

Application. Industrial Organic Synthesis

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 13070

treatment with H₂SO₄. a) A solution of synthetic fatty acids in twice their volume of light gasoline (BP < 100°) or C6H₆, was treated at 20-22° with efficient stirring, for 30-60 minutes, with a saturated solution of I (in the presence of undissolved I), taken in an amount ≥ 120% of the theoretical; ~ 350 ml of saturated solution of I being taken per 80 g of acids of normal structure. The complex that was formed was filtered off together with the excess I and washed with gasoline or C6H₆. From the gasoline (benzene) layer, were isolated, by distillation of the solvent, the acids that did not react with I. The aqueous layer was stirred while heating to 80°, with the filtered off precipitate, the acids that separated were removed, washed with water and dried, while the aqueous solution of I was cooled and used together with the precipitate of I that separated, in the

Card 2/4

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USSR/Chemical Technology - Chemical Products and Their

T-14

Application. Industrial Organic Synthesis

Abs Jour :

: Referat Zhur - Khimiya, No 4, 1957, 13070

next experiments. b) I, taken in an amount corresponding to 120% of the theory, was ground with the mixture of synthetic fatty acids, preferably in the presence of 3% (on the basis of I) of water or CH2OH. Further washing of the complex that was formed to remove the unreacted acids, their isolation and decomposition of the complex, were carried out as described above. Presented are the results of separations of mixtures of saturated acids, produced from peanut oil and by oxidation of synthol fraction (boiling range 220-3300). Ascertained was the posibility of utilizing extractive crystallization by means of I, for the separation of synthetic fattly acids produced by oxidation of liquid hydrocarbon mixtures, including also their solid fractions, and also for the purification from byproducts of oxidation. By changing the conditions of extractive crystallization

Card 3/4

- 275 -

USSR/Chemical Technology - Chemical Products and Their

I-14

Application. Industrial Organic Synthesis

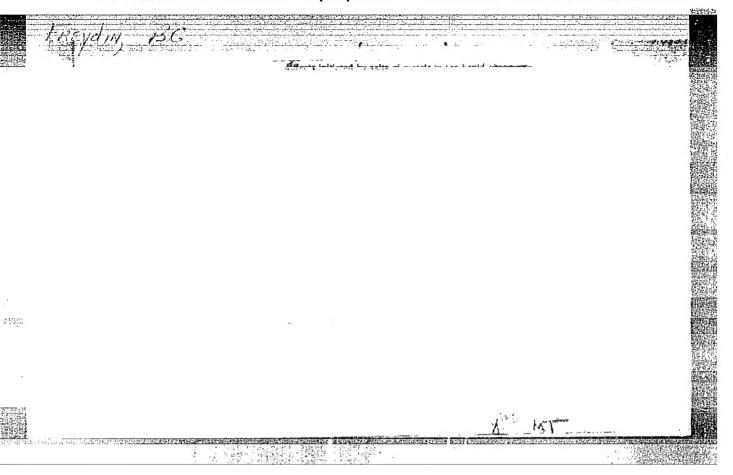
Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 13070

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620019-5

(change in the amount of I) it is possible to isolate

purer acids of a normal structure.



FREYDIN, B. G., Cand Chem Sci -- (diss) "Catalytic reactions in the process of oxidation of liquid paraffins." Leningrad, 1960. 18 pp; (Leningrad Order of Lenin State Univ im A. A. Zhdanov); 200 copies; price not given; (KL, 30-60, 137)

S/064/60/000/004/007/021/XX B013/B069

AUTHORS:

Tsyskovskiy, V. K., Levina, M. I., Freydin, B. G.,

Leont'yeva, V. P.

TITLE:

Synthesis of Dicarboxylic Acids by Direct Oxidation of Liquid

Paraffins With Atmospheric Oxygen

PERIODICAL: Khimicheskaya promyshlennost', 1960, No. 4, pp. 8 - 11

TEXT: A study has been made of the oxidation conditions for liquid paraffins ensuring the formation of an oxidation product with a sufficient content of bifunctional products, among them free and bound dicarboxylic acids. Methods for the precipitation of dicarboxylic acids from the oxidation product have also been studied. The fraction boiling at 240-350°C was chosen, which is isolated in carbamide deparaffination of Diesel fuels (Ref. 8). The system described in Ref. 9 was used for oxidation. The optimum rate of air supply for the oxidation of paraffins to oxy acids had been determined in previous investigations, and had been found to amount to 5.2 cm/sec. Manganese salts of naphthenic acids served as catalysts (Ref. 10).

Card 1/3

Synthesis of Dicarboxylic Acids by Direct Oxidation of Liquid Paraffins With Atmospheric Oxygen

S/064/60/000/004/007/021/XX B013/B069

The effect of reaction temperature and reaction time upon the conversion degree of paraffins to oxy acids is illustrated in Fig. 1, and the effect upon the rate of formation of free and bound carboxyl groups is shown in Fig. 2. The range between 130° and 140°C has been found to be most favorable for oxidation. In this range, oxidation takes place at a satisfactory rate, and provides higher yields compared with higher temperatures. Experiments were conducted at 135°C with a view to obtaining better yields of useful reaction products. By an increase of the concentration of oxygencontaining compounds, the hydroxyl number is steadily decreased, while acid and ether numbers are increased. It was found that the yields of dicarboxylic acids referred to the initial paraffin are in no direct relationship to the saponification number of the oxidation product. The yield of dicarboxylic acids rises up to a given oxidation degree. The yield is not increased by a further increase of the oxidation degree. At a hydrolysis temperature of 1500-170°C, the amount of isolated water-soluble acids attains its maximum (Fig. 3). A further increase of temperature reduces the yield due to decomposition of dicarboxylic acids. The quality of acids

Card 2/3

Synthesis of Dicarboxylic Acids by Direct Oxidation of Liquid Paraffins With Atmospheric Oxygen

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isolated at higher temperatures however, is higher both with respect to the ether number and to the content of crystalline acids. The composition of dicarboxylic acids was studied on silica gel by distribution chromatography (Ref. 4). The following provisional data concerning the material balance of the synthesis were obtained for the oxidation of liquid paraffins when the washed-out oxidation product was introduced (residue from hydrolysis): raw dicarboxylic acids: 54.0%; distilled acids: 44.0% (28.0% crystalline and 16.0% non-crystalline). On the basis of the results obtained, the synthesis of dicarboxylic acids by direct oxidation of liquid paraffins in one operation is said to be very promising. There are 3 figures, 5 tables, and 10 references: 6 Soviet.

ASSOCIATION: VNIIneftekhim

Card 3/3

FREYDIN, B.G.; TSYSKOVSKIY, V.K.

Catalytic effects in the process of the synthesis of higher fatty acids by the exication of liquid paraffin hydrocarbons. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR no.8:138-147 '60.

(MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

(Acids, Fatty) (Paraffins) (Manganese compounds)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620019-5"

IGONON, P.G., inzh.; SVITKIN, V.V., inzh.; MITROFANOV, M.G., kand.tekhn.nauk; SLEPTSOV. Yu.S., inzh.; KOLOZHVARI, A.A., inzh.; Pashenko, M.A., inzh.; ZHIVOLUPOVM.A., inzh.; Prinimali uchastiye: MUSHENKO, D.V.; TSYSKOVSKIY, V.K.; SHCHEGLOVA, TS.N.; FREYDIN, B.G.; PYL'NIKOV, V.I.; LEVINA, M.I.; LEVIN, A.I.; LUR'YE, Ye.I.; BAYKINA, T.A.; UDOVENKO, S.A; MARCHENKO, T.A.

Effect of the method of liquid paraffin oxidizing on the yield and quality of the obtained fatty acids. Masl.-zhir.prom. 28 no.11:20-23 N 162. (MIRA 15:12)

1. Groznenskiy nauchno-issledovatel'skiy neftyanoy institut (for Igonin, Svitkin, Mirtofanov, Sleptsov, Kolozhvari, Pashenko, Zhivolupov).

2. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov (for Mushenko, TSyskovskiy, Shcheglova, Freydin, Pyl'nikov, Levina, Levin).

3. Lengiprogaz (for Lur'ye, Baykina).

4. VNIISINZh (for Udovenko, Marchenko).

(Paraffins) (Acids, Fatty)

ACCESSION NR: AT4010621 \$/3051/63/000/000/0438/0444

AUTHOR: Tsy*skovskiy, V. K.; Freydin, B.G.

TITLE: Catalyzed oxidation of n-tetradecane in the liquid phase

SOURCE: Kataliticheskiye reaktsii v zhidkoy faze. Trudy* Vsesoyuznoy

konferentsii. Alma-Ata, 1963, 438-444

TOPIC TAGS: catalyst, catalytic oxidation, oxidation, n-tetradecane, naphthene,

naphthenate, tetradecane, aromatic hydrocarbon

ABSTRACT: Mn-napthenate (0.03% at 125, 140, and 1550) and its mixture with K-naphthenate at 1250 were used as catalysts in the oxidation of n-tetradecane, the kinetics of which are presented in time curves for the reacted hydrocarbon. The accumulated hydroxyl-, carbonyl-, carboxyl-, and ester radicals are discussed and the products characterized. The curves show that at all temperatures the proportion of alcohols and ketones in the product decreases and the proportion of acids and esters increases as the oxidation progresses. A rise of the reaction temperature within 125-1550 increases the proportion of ketones and decreases that of acids in the product. The product contains 18-32% alcohols, 8-49% ketones, 5-38% acids, and 17-32% esters as 5 to 70 mol%.

ACCESSION NR: AT4010621

of the hydrocarbon oxidizes. The shift in reaction direction may be explained by a direct oxidation of alcohols to acids without intermediate ketone formation in the presence of the catalyst. The authors conclude that the action may be only triggering or both triggering and catalytic, depending on the particular metal with variable valence. Orig. art. has: 1 graph, 2 tables, and 3 chemical formulas.

ASSOCIATION: Vsesoyuzny*y nauchno-issledovatel'skiy institut neftekhimiches-kikh protsessov (All-Union Scientific Research Institute of Petrochemical Processes)

SUBMITTED: 00

DATE ACQ: 25Jan64

ENCL: 00

SUB CODE: GC

NO REF SOV: 014

OTHER: 005

Card^{2/2}

CIA-RDP86-00513R000413620019-5

FREYDIN, B.G.

Mechanism underlying the formation of esters during the oxidation of paraffinic hydrocarbons. Zhur. prikl. khim. 36 no.5:1101-1106 My '63. (MIRA 16:8)

(Esters) (Paraffins) (Oxidation)

FREIDIN, B.G.; TSYSKOVSKIY, V.K.

Effect of the temporary consation of the oxidation reaction of paraffins on its further development. Zhur. prikl. khim. 36 no.11:2552-2554 N '63.

(MIRA 17:1)

Building the first section of KS-14. Stroi. truboprov. 9 no.5:
18-20 My 164. (NIRA 17:9)

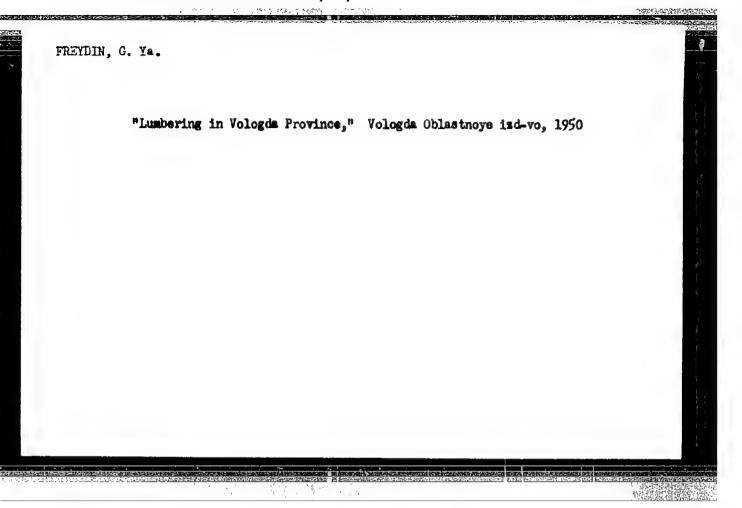
1. SU-1 trasta Benzinoprovodstroy, Cholyabinsk.

MAKAROVA, Ye.I.; FREYDIN, G.S.

Standardization of a method for measuring blood pressure in children. Pediatriia no.6:41 *61. (MIRA 14:9)

1. Iz otdela razvitiya i vospitaniya (zav. - chlen-korrespondent AMN SSSR prof. H.M. Shchelovanov) Instituta pediatrii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.D. Sokolova-Ponomareva) i Vsesoyuznogo nauchno-issledovatel skogo instituta meditsinskogo instrumentariya i oborudovaniya (dir. - kand.tekhn.nauk I.P. Smirnov).

(BLOOD PRESSURE)



AUTHOR:

Freydin, G.Ya., Engineer, Chief of

SOV-118-58-8-9/24

Ustyugles Kombinat

TITLE:

Large Package-Type Timber Loading (Krupnopaketnaya pogruzka

lesa)

PERIODICAL:

Mekhanizatsiya trudoyëmkikh i tyazhëlykh rabot, 1958, Nr 8,

pp 22-24 (USSR)

ABSTRACT:

Workers of the Ustyugles kombinat of the Vologodskiy sovnarkhoz developed a method of large package-type timber loading. The trailer tractor is loaded with the help of pulley blocks.

As much as 18 to 25 cu m of timber can be loaded in one operation. The method is described in detail. The cost of the loading operation is reduced to one third of former costs.

There are 2 photos and 1 diagram.

ASSOCIATION: Ustyugles kombinat (The Ustyugles Kombinat)

1. Lumber -- Loading

Card 1/1

AGAPOV. Yu.Ya., FREYDIN, G.S.

Disturbances in respiratory gas exchanges during mitral commissurotomy [with summary in English]. Chirurgiia 34 no.6:116-121 Je '58 (MIRA 11:8)

l. Iz gospital'noy khirurgicheskoy kliniki (dir. - prof. V.S. Mayat)
II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I.
Pirogova i Vsesoyuznogo nauchno-issledovatel'skogo instituta meditsinskogo instumentariya i oborudovaniya (dir. I.P. Smirnov).

(COMMISSUROTONY, complications

disturbances in resp. gas exchange (Rus))
(RESPIRATION.

gas exchange distrubances during mitral commissurotomy (Rus))

FEDURKIN, V.V.; NESTERENKO, A.T.; KOVSHAROVA, L.A.; RAZUMOVSKAYA, Ye.I.;
OSIPOVA, Ye.V.; VASIL'YEVA, G.S.; PEKARSKIY, M.D., otv.red.;
ZVORONO, B.P., zamestitel' otv.red.; BOLDYREV, B.V., red.; VOLODIN,
Ye.A., red.; DANIL'CHENKO, Ye.P., red.; ORSKIY, I.N., red.; MISHIN,
L.N., red.; FREYDIN, G.S., red.; TSEPELEV, Yu.A., red.

[Technological instruction material; aluminum and aluminum alloys for medical articles] Rukovodiashchie tekhnicheskie materialy; aliuminii i aliuminievye splavy dlia meditsinskikh izdelii. Moskva, M-vo zdravookhraneniia, 1959. 70 p. (MIRA 13:8)

1. Vsesoyuznyy nauchno-isaledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya.

(MEDICAL INSTRUMENTS AND APPARATUS) (ALUMINUM)

ABRAMOV, A.S.; MENDEL'SON, V.S.; FREYDIN, G.Yu.; POGOREL'SKIY, M.A.; BOEKOV, L.I.; SELEKH, V.F.

Designing die casting molds for diamond tools. Mashinostroitel' no.11:30-32 N '64 (MIRA 18:2)

FREYDIN, I.I.

Late results following curettage of the cavum uteri during the late puerperal period. Sovet. med. 26 no.5:132-134 My '63 (MIRA 17:1)

1. Iz akusherskogo otdeleniya (zav. I.A.Kaplanskiy) Roslavl-skoy gorodskoy bol'nitsy (glavnyy vrach G.S. Matviyevskiy).

FREIDIN, I.L. Strana Sovetov; kratkii ekonomiko-geograficheskii ocherk SSSR. Koskve/Moledaia gvardiia, 1937. 353 p.
NN NNC PU

DLC: HC335.F83

SO: LC, Soviet Geography, Part I, 1951, Uncl.

FREIDIN, I. L.

Sovetskaia Chuvashiia. Soviet Chuvashia Moskva Gos. sots.-ekon. izd-vo, 1949. 110p. illus., fold. maps.

Transportation (p. 73).

DLC: DK511.C5F7

SO: Soviet Transportation and Communications, A Pibiography, Library of Congress Reference Department, Washington, 1952, Unclassified.

FREYDIN, 1. L.,

"The Struggle for a Sea Route to the Pechora," Chronicles of the North; Yearbook of Historical Geography, History of Geographical Discoveries and Exploration of the North, v. 2, Moscow, Geografgiz, 1957, 279 p. (Akademiya nauk SSSR. Kommisiya Po problemam Severa).

Editorial Board: Andreyev, A. I., Belov, M. I. Burkhanov, V. F., Yefimov, A. V. (Resp. Ed.), Chernenko, M. B. (Deputy Resp. Ed.) and Shcherbakov, D. I.; Ed.: Vorontosova, A. I.; Tech. Ed.: Kosheleva, S. M.; Map. Ed.: Mal'chevskiy, G. N.

PURPOSE: The book is intended for readers interested in the Soviet Arctic.

COVERAGE: The present volume, the second of a series of three, is a collection of 27 articles by various authors presenting an historical account of the exploration and economic development of the Soviet North. A small part of the book is devoted to Arctic areas beyond the confines of the Soviet Union. The aim of the book is to contribute to an understanding of the physical geography, cartography, ethnography, and economy of the Soviet North through a historical survey of these factors, A large number of authors, explorers, scientists, travellers, pilots, navigators, etc., are cited.

FREY DIP. 1.L.

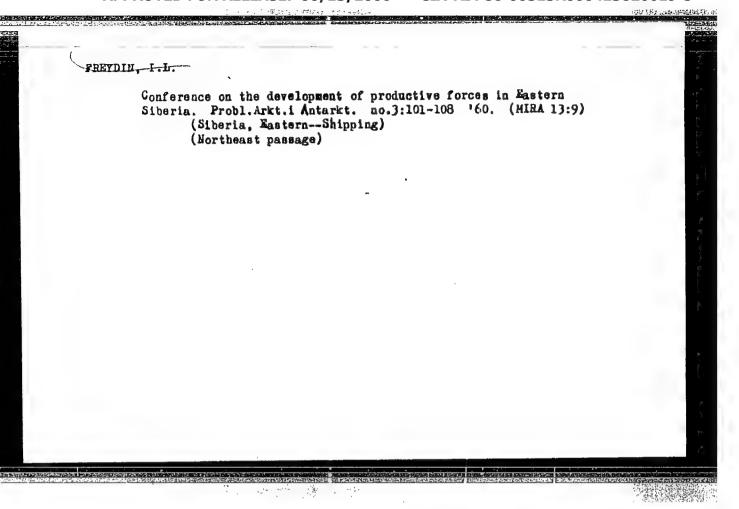
Struggle for a sea route to the Pechora. Let. Sev. 2:206-215 157.

(MIRA 10:12)

1. Hoskovskiy gosudarstvennyy universitet im. M.V. Lomonosova,

Geograficheskiy fakulitet, Kafedra polyarnykh stran.
(Russia, Northern-Discovery and exploration) (Pechora river)

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FREYPIN, 1.L.

"In first "suede leather factory" in the Pechora Valley of the North. Let. Sev. 4:143-147 '64. (MIRA 18:3)

1. Kol'akiy filial AN SSSR.

FREYDIN, I.L.

Problems in the development of transportation on the Kara Sea via the straits of the Novaya Zemlya. Probl. Sev. no.3:128-136 159. (MIRA 13:4)

l. Tsentral'nyy ekonomicheskiy nauchno-issledovatel'skiy institut Gosplana RSFSR. (Kara Sea--Shipping)

FREYDIN, I. M. and PEYVE, V. V. Engs.

#Spacial Photometric Graphs of Conditioned Horizontal Lighting," Prom. energ., 9, No.9, 1952

FREYDIN, K. M.

Effect of spinal cord injury on the functions of internal organs. Newropat. psikhiat., Moskva 19 no.4:34-38 July-Aug. 1950. (CIML 20:1)

1. Of the Neurological Division (Head -- Prof. A. Ye. Kul'kov), Central Institute of Health Resort Therapy.

FREYDIN, Khaim Markovich, doktor meditsinskikh nauk, professor; USPENSKAYA,
N.V., redaktor; DMITRYEVA, R.V., tekhnicheskiy redaktor.

[Sanatorium and health resort therapy for nervous diseases]
Nervnye bolezni i ikh sanatorno-kurortnoe lechenie. Moskva,
Izd-vo "Znanie," 1954. 23 p. (Vses. ob-vo rasprostraneniiu
polit. i nauchn. znanii, ser.3, no.51) (MLRA 7:12)
(Nervous system--Diseases) (Therapeutics, Physiological)

FREYDIN, Kh.M.

Principles of resort therapy for patients with aftereffects of epidemic poliomyelitis. Vop.kur.fizioter. i lech.fiz. kul't. 21 no.2:14-20 Ap-Je '56. (MLRA 9:9)

1. Iz nevrologicheskogo i bal'neo-fizioterapevticheskogo otdeleniy (zav. - prof. Kh.M.Freydin) TSentral'nogo instituta kurortologii (dir.-kandidat meditsinskikh nauk G.N.Pospelova)

(POLIOMYELITIS) (PHYSICAL THERAPY)

"APPROVED FOR RELEASE: 06/13/2000 (

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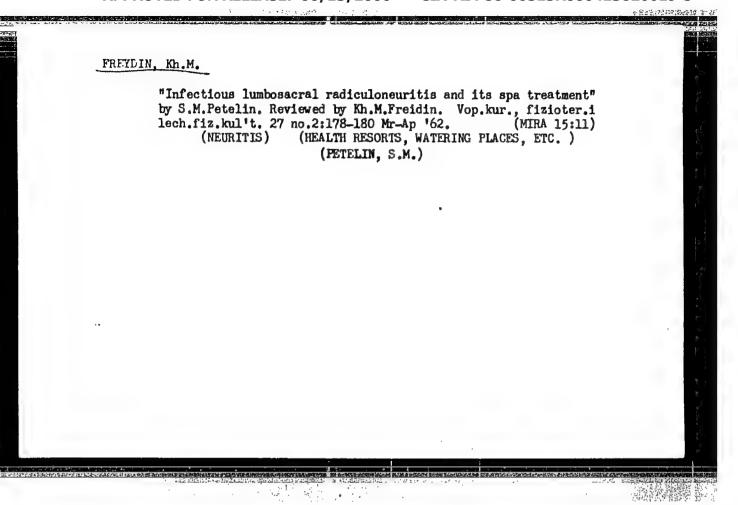
PREYDIN Knaim Markovich; KORNYANSKIY, O.P., red.; SENCHILO, K.K., tekhn.

red.

[Diseases of the spinal cord and physical methods of treating them.] Poresheniis spinnogo morga i fizioheakie metody v ikh lechenii. Moskva, Gos. izd-vo med. lit-ry, 1957. 231 p.

(SPIMAL CORD.-DISEASES)

(WIRA 11:4)



AKULOVA, R.F.; BYKHOVSKIY, Z.Ye.[deceased]; VYGOLNER, Ye.B.;
GOL'DFAYL', L.G.; DIK, V.G.; DMITRIYEVA, R.M.; DUEYNIMA,
Ye.I.; LEVIN, B.S.; NFZLIN, S.Ye.; SFERANSKIY, N.I.;
SOROKINA, Ye.I.; TKACHENKO, A.F.; FREYDIN, Kh.M.;
CHETVERIKOV, N.S.; VUL'FSON, I.Z., red.; KOKIN, N.M., tekhn.
red.; FRONINA, N.D., tekhn. red.

[Manual for physicians on the selection of sanatoriums and health resorts] Rukovodstvo dlia vrachei po sanatorno-kurortnomu otboru. Pri uchastii R.F.Akulovoi i dr. 2 izd., dop. i ispr. Moskva, Medgiz, 1963. 511 p.

(SANATORIUMS) (MISA 16:12)

(HEALTH RESORTS, WATERING PLACES, ETC.)

Development of health resort neurology in the U.S.S.R.; materials on the history of health resort therapy. Vcp. kur., fixioter. i leoh. fiz. kult'. 30 no.3:255-261 My-Je '65.

(MIRA 18:12)

1. TSentral'nyy institut kurortologii i fixioterapii (diraktor - kand. med. nauk G.N. Pospelova), Moskva. Submitted March 4, 1963.

FREYDIN, Kh.M.; LEYTES, F.L.

Effect of sodium chloride baths on the function of the hypophysial-adrenal system. Vop. kur., fizioter. i lech. fiz. kul't. 30 no.4:300-303 Jl-Ag '65. (MIRA 18:9)

1. Bal'neoterapevticheskiy otdel (zav.- prof. Kh.M. Freydin) i Radiologicheskaya laboratoriya (zav.- prof. Ye.S. Shchepot'yeva) TSentral'nogo instituta kurortologii i fizioterapii (dir. G.N. Pospelova), Moskva.

FREYDIN, L.M.; RUDAKOV, L.M.; GORSHTEYN, I.I.

Sintering with a various amount of anthracite dust in the fuel.

Metallurg 8 no.10:3-4.0 '63. (MIRA 16:12)

1. Kommunarskiy metallurgicheskiy zavod i gornometallurgicheskiy institut.

FOGEL'SON, L.I., prof.; SHIK, L.L., prof.; FREYDIN, L.M., dots:, nauchnyy red.; BELYAK, A.S., tekhn. red.

[Diseases of the heart and vessels] Bolezni serdtsa i sosudov.

Moskva, Izdatel'skoe biuro tresta "Meduchposobie." Book 1. Atlas.

1961. 283 p. (MIRA 15:3)

(CARDIOVASCULAR SYSTEM—DISEASES)

ZHETVIN, N.P., kand.tekhn.nauk; FREYDIN, h.M., inzh.; RUDAKOV, L.M., inzh.

New developments in research. Stal' 23 nc.7:652 Jl '63.

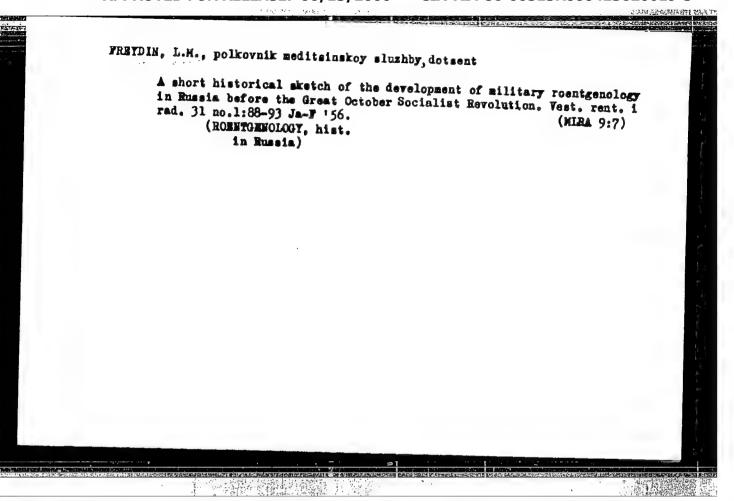
(MIRA 16:9)

(Steel-Heat treatment)

FREYDIN, L.M.; GRITSENKO, M.I.; PETROV, K.M., inzh.; D'YAKONOV, V.I., inzh.

New developments in research. Stal' 24 no.7:596 Jl '64.

(MIRA 18:1)



ONOPRIYENKO, V.N., kand.tekhn.nauk; STARSHINOV, B.N., kand.tekhn.nauk; STARSHINOV, B.N., kand.tekhn.nauk; TKACHENKO, A.A., inzh; SINITSKIY, V.D., inzh.; FREYDIN, L.M., inzh.; PORTHOY, L.Ya., inzh.

Operations of the blast furnace no.3 at the Voroshilov Plant using fluxed IUGOK sinter. Biul.TSNIICHM no.17:1-6 (325) 157.

(MIRA 11:4)

(Blast furnaces)

133-9-2/23 Onopriyenko, V.P., Starshinov, B.N., Candidates of Technical AUTHOR:

Sciences and Trachenko, A.A., Sinitskiy, V.D., Freydin, L.M.,

Portnyy, L.Ya., Engineers.

TITIE: Operation of a Blast Furnace with 1.1 atm. Top Pressure. (Rabota domennoy pechi s davleniem do 1.1 ati)

Stal', 1957, No. 9, pp. 772 - 778 (USSR). PERIODICAL:

CT: The influence of top pressure variation from 0.6 to 1.1 atm. on the operation of a large (1 386 m2) blast furnace was investi-ABSTRACT: gated. The profile of the furnace is shown in Fig.1. Characteristics of burden materials and coke during the individual test periods are given in Tables 1 and 2. Operating factors are given in Table 3. Changes in the distribution of CO2 along the throat

radios in Fig. 2, the composition and temperatures of the peripheral and top gas in Fig. 3, the pressure drop with the height of the furnace in Fig. 4, changes in the gas pressure along the furnace throat radius in Fig. 5. Changes in the length of tap hole and furnace-operating indices during various testing periods are given in Tables 4 and 5, respectively. On the basis of experience gained, the following conclusions are drawn: an increase of top pressure from 0.6 to 1.1 atm., contributes to the development of the peripheral flow of gases. In such case,

Card 1/3a decrease on the coke charge or an increase in the proportion

133-9-2/23

Operation of a Blast Furnace with 1.1 atm. Top Pressure.

of direct (ore first) charges (with simultaneous dropping of the whole charge) leads to an increase in amount of ore charged to the periphery with a subsequent decrease in the peripheral flow. Static pressure along the furnace height changes lineary. On increasing pressure of gas in the throat from 0.11 atm. to 0.46 atm. and blast volume from 1 400 to 3 400 m3/min, the blast pressure increased more than that of top gas, while the uniform drop of pressure along the height of the furnace was preserved. On increasing mean gas pressure in the furnace by an appropriate increase in driving rate, the blast pressure increases to the same extent as the pressure of gas in the throat. With a constant blast volume, the pressure of gas in the stack increases to a lesser degree than that in the throat. On transfer to a higher top pressure (1.1 atm.) the blast temperature can be increased by 20 - 50 °C and the driving rate increased by 2-6% (in comparison with operating conditions of a top pressure 0.6 - 0.8 atm). The operation of the furnace becomes smooth, but on decreasing top pressure back to 0.6 - 0.8 atm., the smoothness of the operation deteriorates. On increasing top pressure from 0.8 to 1.1 atm., the output of the furnace increased by 8.3% and the coke rate decreased by 2.9%. On decreasing pressure from 1.1 atm. to card2/30.6 - 0.8 atm., the output of the furnace decreased by 5.0 - 9.3%

Operation of a Blast Furnace with 1.1 atm. Top Pressure.

and coke rate increased by 3.8 - 3.7% (recalculted on equal increase

ASSOCIATION:

The Ukrainian Institute of Metals (Ukrainskiy Institut Metallov) Works im. Voroshilov (Zavod im. Voroshilova)

AVAILABLE:

Library of Congress.

Card 3/3

ABRAMOVICH, M.N., inzh.; GORSHTEYN, I.I., kand.tekhn.nauk; MASYURA, I.M., inzh.; BOL'SHAKOV, A.A., inzh.; RUDAKOV, L.M., inzh.; FREYDIN, L.M., inzh.; Prinimali uchastiye: SUBBOTIN, Ye.P.; TERTYSHNYY, V.P.; MAKSIMCHIK, N.F.; BOYKO, S.G.

Practices of the Alchevsk sintering plant. Stal' 21 no.10:869-873 0 '61. (MIRA 14:10)

1. Alchevskiy metallurgicheskiy zavod i Voroshilovskiy gornometallurgicheskiy institut.
(Voroshilovsk-Sintering)

FREYDIN, L.M., inzh.; RUDAKOV, L.M., inzh.

New developments in research. Stal' 23 no.7:600 Jl '63.

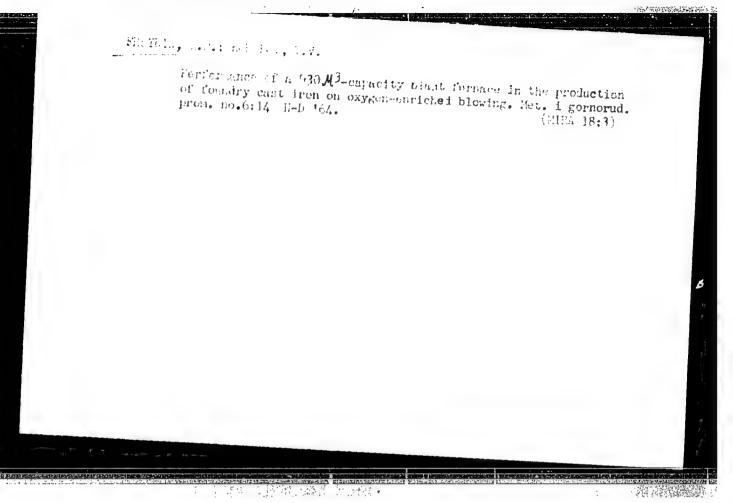
(MIRA 16:9)

(Blast furnaces)

PIROGOV, A.A.; LEVE, Ye.N.; KRASS, Ya.R.; VORONIN, V.I.; TKACHENKO, A.A.; EULATNIKOV, Ye.A.; FREYDIN, L.M.; KOSINSKIY, V.F.

Testing carbon blocks in iron tapping troughs in blast furnaces. Ogneupory 28 no.8:368-370 '63. (MIRA 16:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut ognenporov (for Pirogov, Leve, Krass). 2. Kommunarskiy metallurgicheskiy zavod (for Voronin, Tkachenko, Bulatnikov, Freydin, Kosinskiy).



STARSHINOV, B.N.; SINITSKIV, V.D.; SEN'KO, G.Ye.; GULYGA, D.V.; BABIY, A.A.; KHORUZHIY, A.G.; Prinimali uchastiye: OSTROUKHOV, M.Ya.; SAVELOV, N.I.; PLISKANOVSKIY, S.T.; MOISEYEV, Yu.G.; IAVRENT'YEV, M.L.; TARASOV, F.P.; ZAGREBA, A.V.; KAMENEV, R.D.; TKACHENKO, A.A.; FREYDIN, L.M.; LUKIN, P.G.; POPOV, Yu.A.; MISHIN, P.P.; KARACHENTSEV, M.D.; DOLMATOV, V.A.; AYUKOV, A.S.; PALAGUTA, V.P.; VYAZOVSKIY, Yu.V.; SOLODKIY, Yu.A.; KONAREVA, N.V.; SAPRONOV, Yu.V.; SINITSKAYA, S.K.; BANDINA, Ye.Ye.

Results of the first year of operation of large capacity blast furnaces. Shor. trud. UNIIM no.11:34-46 '65.

(MIRA 18:11)

FREYDIN, M.M.

Effect of high-voltage power supply sources on electrostatic spraying of paint materials. Lakokras.mat.i ikh prim. no.1: 54-56 '62. (MIRA 15:4)

1. Nauchno-issledovatel'skiy institut tekhnologii lakokrasochnykh polrytiy.

(Painting, Industrial)

L 1879-66 EWI(m)/EPF(c)/EWP(1)/EWP(j)/I/EWP(t)/EWP(b) JD/RM

ACCESSION NR: AP5022512

UR/0303/65/000/004/0040/0041

667.644.3

AUTHOR: Freydin, M. M., Moiseyev, Ye. V.; Yezhova, E. N.

TITLE: Deposition of multilayer coatings in an electric field

SOURCE: Lakokrasochnyye materialy i ikh primeneniye, no. 4, 1965, 40-41

TOPIC TAGS: varnish, protective coating, organosilicon compound, atomization

ABSTRACT: Experiments/were performed on the multilayer deposition of a heat-resistant organosilicon primer on the deposition electrode of an electric atomizer (voltage, 80 kV), using an ESG rotor electrostatic generator. The thickness of the successively deposited layers was then increased by pulsed charging with a V-140-5 high-voltage transformer and kenotron rectifier. The improved deposition under pulsed charge conditions is due to the drainage of the charges off the layer surface during the periods between the pulses. This drainage was facilitated by depositing a semiconducting layer and using it as the substrate for the organostatic generator and the V-140-5 high-voltage transformer are compared. The total Card 1/2

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Card 2/2

CIA-RDP86-00513R000413620019-5

L 1879-66
ACCESSION NR: AP5022512

contrary to the case in which ESG was used, the deposition process did not cease and could have been continued. Orig. art. has; 2 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: MT, GC

NO REF SGV: 000 OTHER: 000

POMIRCHIY, R. (Leningrad); SAMYLKIN, B. (Leningrad); FREYDIN, R. (Leningrad)

Changing the design of gas water heaters. Pozh.delo 9 no.3:15 Mr '63.

(Water heaters)

(Water heaters)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620019-5"

FREYDIN, S.M.

Differential diagnosis of multiple benign ulcers of the small curvature of the stomach. Vest.rent.i rad. 34 no.5:76-77 S-0 159. (MIRA 13:3)

1. Iz rentgenovskogo otdeleniya (xav. S.M. Freydin) Moskovskoy gorodskoy bol'nitsy No.47 (glavnyy vrach M.A. Sirotin). (PEPTIC ULCER diagnosis)

AID P - 2951

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 1/35

Authors

: Freydin, V. I. and A. M. Galinskaya, Engs.

Title

: Adjusting the pulverized fuel system of boilers

Periodical

: Energetik, 5, 1-4, My 1955

Abstract

At one of the electric power stations burning culm, an adjustment was made which effected considerable economies in coal pulverizing. The authors describe the measures adopted in the rebuilding and regulation of the ball mills and present the results obtained in

tabulated form. Two tables, 2 drawings.

Institution:

None

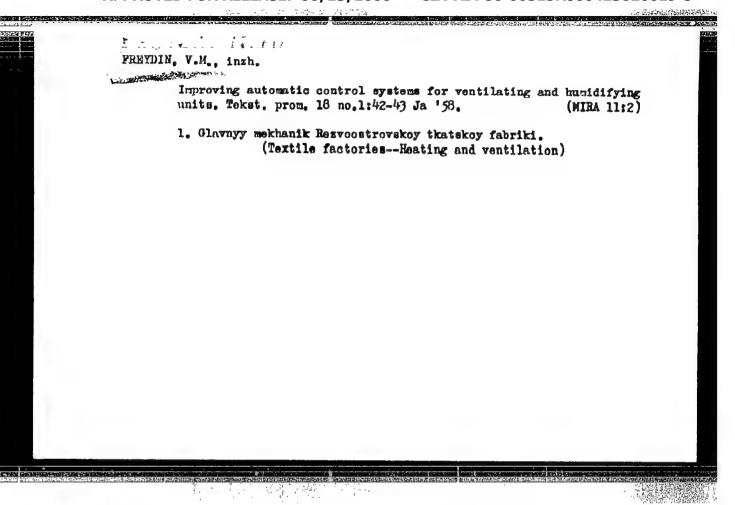
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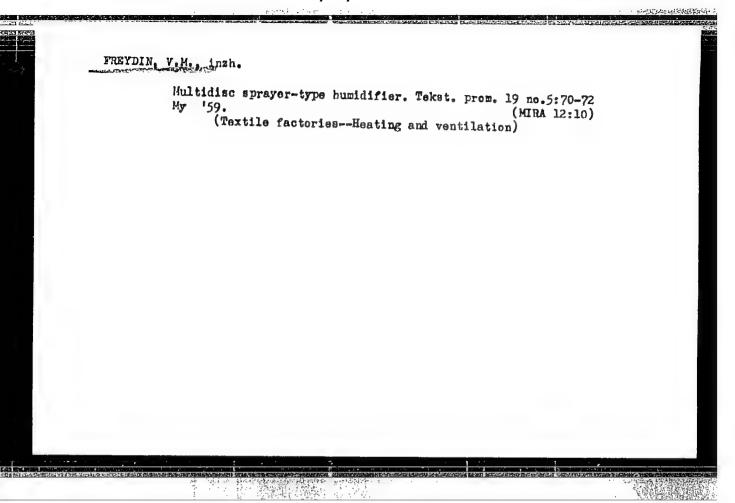
No date

GINZBURG, Z.M., inzh.; BRAVIN, L.S., inzh.; FREYDIN, V.I., inzh.

Automatic control of a dredge slag removal pumping unit. Elek. sta. 32 no. 5:79-80 My '61. (MIRA 14:5) (Electric power plants) (Automatic control)

Direct measurement devices Tekst.pr	of moisture loss in ventilating and humiom. 17 no.6:52-54 Je 57. (MLRA 1	difying (0:7)
1. Glavnyy mekhanik (Textile facto	fabriki "Resvoostrovskays." ries-Heating and ventilation) (Hydrome	iter)
•		
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ACCESSION NR: AP5010290

UR/0286/64/000/014/0091/0091

AUTHOR: Shkundin, B. M.; Bychkova, Ye. M.; Freydin, V. M.

B

TIME: Hydraulic feeding device for supplying powdered naterials into the sain pipelines of hydraulic transportation installations. Class 81, No. 164232

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1964, 91

TOPIC TAGS: hydraulic equipment, hydraulic engineering

Translation: 1. A hydraulic feeding device for supplying powdered materials to the main pipelines of hydraulic transportation installations. The device includes a chamber which has devices for scaling it off at the top and bottom, a pipe branch for feeding water into it and a discharge line which feeds the material into the main pipeline. In order to control the rate at which the material is discharged from the chamber, an inclined chute with a vibrator is mounted on clastic supports on the bottom of the chamber. 2. A hydraulic feeding device of this description in which a hydraulic sorter of the countercurrent type is mounted above the upper lock of the chamber in order to concentrate the material according to grain size when the chamber is being loaded.

Card 1/2

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	ACCESSION NR. AP5010290
	ASSOCIATION: Vsescyuznyy ordena Lenina proyektno-izyskateliskiy i nauchno-issledova-
	inary Study, Design and Scientific Research Institute "Gidroproyekt")
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	Card 2/2

AUTHOR: Freydin, V.Yu., Engineer SOV/67-11-5-7/18

TITLE:

Valves for High Pressure in Oxygen and Air Pipes (Ventil' vysokogo davleniya dlya kislorodnykh i voz-

dushnykh kommunikatsiy)

PERIODICAL:

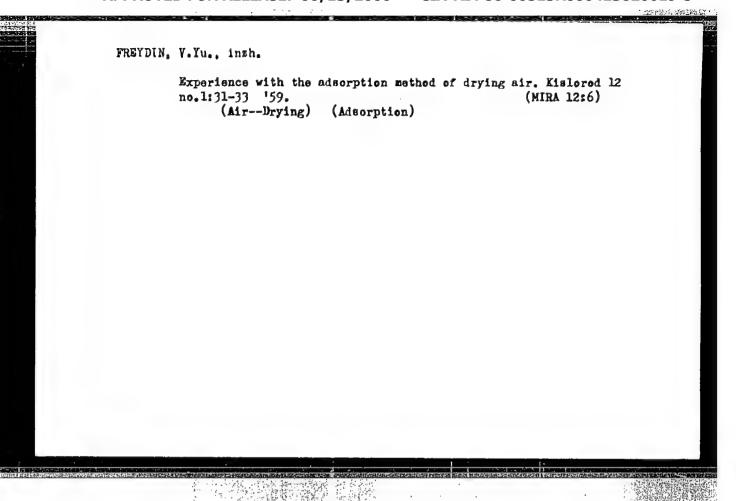
Kislorod, 1958, Vol 11, Nr 5, pp 47 - 47 (USSR)

ABSTRACT:

A valve packing is described that is neither concshaped nor spherical but saddle-shaped. It consists of a body with a rotary piston which is packed outwards by a nut with a fibrous intermediate layer. The piston sinks by rotation with the flap shutter into the saddle: closing of the valve. By opposite rotation it is opened. The flap shutter is coated with antifriction metal. These valves have been already used in oxygen and air pipes and had to be exchanged only when a new babbit had to be soldered onto. There

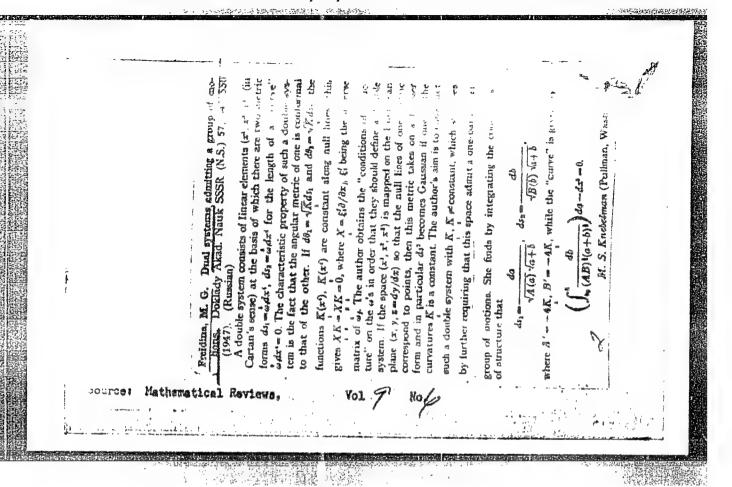
is 1 figure.

Card 1/1



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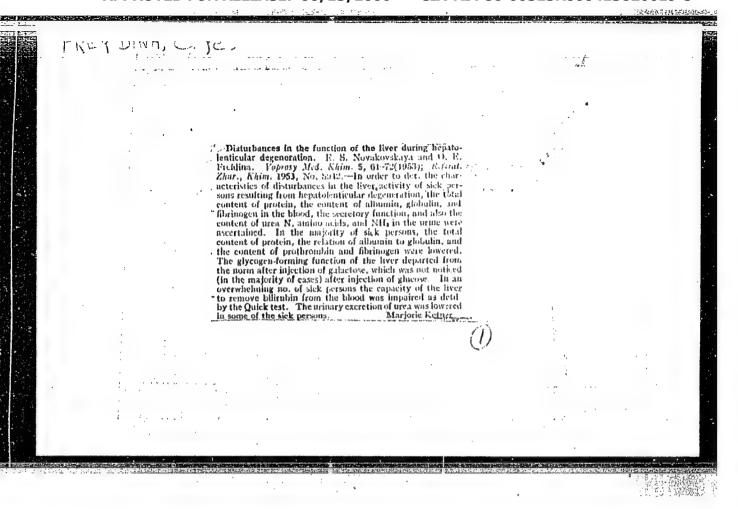


EREYDINA, M.G. Ecclidica, M. G. Dual systems allowing a group of motions. Trudy Sem. Vekter Tenzor Analizu 6 420-443 (1048) (Russian) A dual system consists of linear elements in a plane defined by (x, y, s = dy/dx) in which two metrics are prescribed, v(z). Mathematical Reviews $ds_1 = A_1 dx + B_1 dz$ and $ds_2 = A_2 dx + B_2 dz$, the A's and B's being Vol. 15 No. 1 Jan. 1954 functions of (x, y, z) and dy missing since $dy = x^2 e$. This is a special case of a nonholonomic space in which do a solution $u=1,2,\omega, (uv)=0$ the ω' , being functions of (x^1,v^2,v^3) . The main purpose of the paper is to show that such a source mone try admits at most a one-parameter group of more and to construct such a space that is, to give the explicit form of the w's in a canonical coordinate system M. S. Knebelman (Pullman, Woods)

FREYDINA, O. Kh.

FREYDINA, O. Kh.: "Froblems of the clinical aspects and pathogenesis of hepatolenticular degeneration". Moscow, 1955. Acad Med Sci USSR. (Dissertations for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya letopis', No. 52, 2h December, 1955. Moscow.



FREYDINA, Z.V.

Freydina, Z.V. "The construction of the rail-structural workshop of the Novotagil'sk metallurgy plant," Byulleten' stroit. tekhniki, 1948 No. 23, p. 7-12

SO: U-2889, Letopis Zhurnel'nykh Statey, No. 1, 1949

Precast reinforced congrete quay walls in Luxhniki, Biul.stroi.
tekh.13 no.11:15-18 N '56. (MIRA 10:1)

1. Dormostproyekt. (Mescow-Wharves) (Precast concrete construction)

FREYDINA, Z.; FEOLOV, A.; YELISAVETSKIY, B.; VOLKOVA, N.

Precast diaphragms for span structures. Avt.dor. 23 no.7:
32-3 of cover J1 '60. (MIRA 13:7)
(Viaducts)
(Precast concrete construction)

KURASOVA, G.P., kand.tekhn.nauk; FREYDINA, Z.V., inzh.; DAVYDOVA, V.Ye., inzh.

Using high-strength claydite bitumen in constructing overpasses for motor-vehicle and electric-car traffic. Avt.dor. 25 no.8:13-15 Ag '62. (MIRA 16:2)

1. Proyektnyy institut "Mosinzhproyekt" (for Freydina). (Viaducts)

23116 \$/184/61/000/002/001/008 A110/A033

51180 AUTHORS:

Golubev, A. I., Candidate of Physics and Mathematics; Freydisman,

G. M., Engineer

TITLE:

Labyrinth pumps for corrosives

PERIODICAL: Khimicheskoye maschinostroyeniye, no. 2, 1961, 9 - 12

TEXT: The article deals with low capacity and high pressure labyrinth pumps designed and tested at the VIGM (All-Union Institute of Hydraulic Machinery), by A. I. Golubev (author's certificate No.126748, June 16, 1958). The pumps are based on a multiple thread screw which rotates inside a bush with reversed multiple threading. Labyrinth pumps are similar to pumps working on the spiral self-lubricant endless screws principle, the only difference being that screw and bush are multiple threaded. Their operation is analogous to vortex and labyrinth packing and they operate in low viscosity fluids. Experiments proved that the threaded bush operating in water increases the pressure 7 - 10 times. The efficiency of labyrinth pumps is similar to that of vortex pumps and superior to single stage centrifugal pumps operating in underload conditions. A further common feature between labyrinth and vortex pumps is the marked dependence of their performance

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23146 \$/184/61/000/002/001/008 A110/A033

Labyrinth pumps for corrosives

on their radial and end clearances repectively. The advantages of labyrinth pumps are: simple shape of all metal and non-metal components; absence of mechanical friction between screw and bushing; flexibility of construction apparent in the proportionality between pressure and the length of flow-area, and higher suction power. Labyrinth pumps were included in the nomenclature of "Wing Pumps for the Chemical Industry. Standard Series". In accordance with this nomenclature the Tsentral 'noye konstruktorskoye byuro gidromashinostroyeniya, TsKB GM(Central Designs Office of Hydraulic Machinery) developed about ten labyrinth pump models for test purposes. Some of these have already passed tests and were sent to production plants. Beside the TsKB GM, the following organizations have participated in the project: Shchelkovskiy nasosnyy zavod (Shchelkov Pump Plant); UkrNIIKhIMMASh and the VIGM. Figure 1 shows a 1.5%-2 (1.5Kh-2P) labyrinth pump made of faolite "A" plastics and intended for the handling of corrosives, the pump works at a pressure of 65 m liquid column and 1.8 1/sec. capacity. Screw (2) and bush (3) have two symmetric threadings which results in a dual suction and relieves the rotor from the axial force, apart from ensuring satisfactory performance of the gland under the suction pressure. Figure 2 shows the performance of such a pump with a screw diameter of 100 mm. The 1%N-3-6 (1KhP-3-B) labyrinth type immersion pump

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23116

Labyrinth pumps for corrosives

S/184/61/000/002/001/008 A110/A033

used for hydrofluoric acids works at a pressure of 10m of liquid column and 1 m^3/h cap. and is shown in Figure 3. Suction pipe (1), screw (2) and bushing (3) are made of Monel metal. The pump has graphite bearing bushings (5) operating on acid lubrication and stuffing box (7) for the sealing liquid. Figure 4 shows a 1.5%-2A-2 (1.5Kh-2A-2) labyrinth pump used for hydrocarbons with resin admixtures at 180 - 200°C operating at a pressure of 65 m liquid column and 1.8 1/sec. capacity. The screw has two symmetrical threads and relieves the rotor from axial stresses. The male and female threads of the screw operate jointly with static threads of suction pipe (1), gland body (7) and bushings (3 and 5). The main parts are made of carbon steel. As the pumped liquid tends to crystallize at normal temperature, the pump casing is equipped with pre-heating jacket (4). The escape of poisonous gases is prevented by stuffing boxes (8 and 11) and hermetical connector (9). All three pumps have been designed by the Central Designing Office of Hydraulic Machinery. Figure 5 shows a 1.5X-2N (1.5Kh-2I) labyrinth pump made of acidproof 9M629 (EI629) steel and designed at the Shchelkov Pump Plant for operation with corrosive hydrocarbons. The pump operates at a pressure of 100 m liquid column and a capacity of 3 m $^3/h$. Contrary to pumps above described bearing bush (2) relieves the rotor from axial stresses. The intake is radial, the pressure axial and the pressure pipe is near the outlet. Due to the

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S/184/61/000/002/001/008' A110/A033

Labyrinth pumps for corrosives

described layout of suction and pressure pockets the gland takes up the intake pressure only. 1.5Kh-2I labyrinth pump replaces three-stage centrifugal pumps. Its characteristics are the following: the maximum efficiency is 26% while the reference point efficiency is 22 %. In view of the low delivery, these two types of pumps are similar in efficiency, but labyrinth pumps have a higher efficiency, Besides, vortex pumps cannot be made entirely of EI629 steel, whose toughness during friction in the face clearances leads to galling and breaking of the oper-Experimental tests on 1.5Kh-2I pumps are nearly completed after which the pump will be sent to a plant. Several pilot models of 1KMP-3B and 1.5Kh-2A-2 pumps are still under construction; one passed tests and is now used in the phenolacetone production. The 1.5Kh-2P pump is undergoing service tests with 20 % hydrochloric acid. The above mentioned designs do not exhaust all possibilities; analogous operating principles can be applied in the design of dynamic rotary shaft packings, e.g., for pumps delivering butadiene rubber. These so-called labyrinth impellers would prove particularly efficient at high velocities of the rotary shaft, as the pressure drop transmitted to them is proportional to the circumferential velcoity square. There are 5 figures.

Card 4/8

FREYDKIN, Il'ya Davidovich; LEVITINA, K.I., red.; YAKOVLEVA, N.A., tekhn. red.

[Manual for qualitative chemical analysis in intrapharmaceutical control]Posobie po kachestvennomu khimicheskomu analizu pri vnutriaptechnom kontrole. Moskva, Medgiz, 1963. 206 p. (MIRA 16:3)

FREYDKIN, L.P.; FOMENKO, P.A.

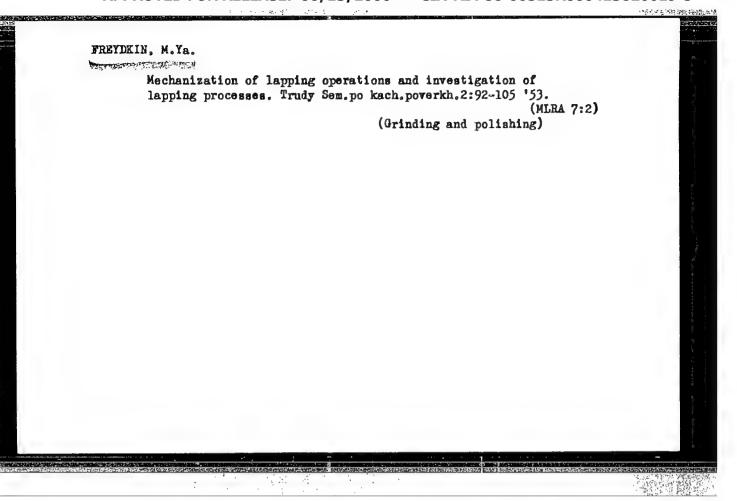
Quick-drying stable inscriptions on glass. Med. prom. 13 no.8: 60 Ag '60. (MIRA 13:8)

1. Khimiko-farmatsevticheskiy zavod No. 9. (DRUG INDUSTRY)

Paristy a Paristy PARRIENTH, M. TA. mass of the meterial. drill, rotating at 2,500 rpm, was used to drill a hole 8 mm in dismeter a normalized steel speci-It has undergone, is considerably harder than the showed that during drilling a thin-surface layer portion of electrolytic polishing. portions, each of which included a part of the USER/Physics of this surface being then removed from each cylindrical surface of the hole, different depths noles &silled in steel specimens. A high-speed distances up to 30-40 microns, from the walls of microhardness of layers situated at various is formed which, as a result of the cold working men. Specimen was then cut up to provide seven Describes experiments on measurements of the "Zavod Lab" Vol XIV, No 12 Estimation of the Cold Hardening of the Eurface Layers of the Walls of Holes, M. In. Freydkin, State Sci Res Technol Inst, 6 pp 1/450-1450 USER/Physics "Application of the Microbardness Method to the Mechanics of Forming and Cutting Processes Material Test Techniques (Contă) Eardness tests Dec 48 49/49TO Dec 48

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413620019-5"



FREYDKIN, M.Ya.; LEVINA, M.S.; ZHUSTAREV, Ye.N.

Finish machining of holes by grooving. Stan.i instr. 31
no.2:37-40 F *60. (MIRA 13:5)

(Metals--Finishing)

11100

م"۔ رزية

27725 \$/122/61/000/007/007/007 D209/D304

AUTHORS:

Zakharov, V.I., Matveyev, V.Ya., Zhustarev, Ye.N.,

and Freydkin, M.Ya., Engineers

TITLE:

The application of ultrasonic vibrations in milling,

planing and thread cutting

PERIODICAL: Vestnik mashinostroyeniya, no. 7, 1961, 62 - 65

TEXT: The application of ultrasonic vibrations to milling cutters, drills, etc. is discussed. By subjecting the tool to vibrations of ultrasonic frequencies, cutting can be carried out with greatly reduced effort. A milling machine, type TT-2 (TG-2) is described which is used for carrying out experiments with ultrasonic vibrations applied to the tool. This device is shown in Fig. 1. Here 1 is the magnetic vibrator, 2 - main support, 3 - tool holder 4 - end cutter; the magnetic vibrator is fed through a pair of brushes, 5, from a generator, 7 is an auxiliary support. Experiments were carried out on lead and stainless steel. The unloaded

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27725 \$/122/61/000/007/007/007 D209/D304

The application of ultrasonic ...

amplitude of the vibrations was 20 - 25 μ . Special emphasis was laid on the cooling of the tool and vibrator necessitated by the high speed used. Thread cutting was carried out using lead, stainless steel and highly heat resistant alloys. The taps used were made of P18 (R18) steel with diameters ranging from 10 to 20 mm. For normal cutting the applied torque is the sum of the frictional and cutting torque. With ultrasonic vibrations of the tool 35 % of the input torque is taken up by friction when using standard taps of tempered steel. A comparison is given in tabulated form between the power required for cutting with and without ultrasonic vibrations of the tool along its cutting edge. When using tap M18 x 1.5 for cutting the thread in a heat resistant alloy at 25 rev/min., a reduction of 38 % in the applied torque results by the use of ultrasonic vibrations. In this case the resonance amplitude is less than 20 μ . Examination of the threads in accordance with the specification laid down on location of the threads in accordance with the specification laid down on location of the threads in scordance with the specification laid down on location of the threads in accordance with the specification laid down on location of the threads in accordance with the specification laid down on location of the threads in accordance with the specification laid down on location of the threads in accordance with the specification laid down on location of the threads in accordance with the specification laid down on location of the threads in accordance with the specification laid down on location of the threads in accordance with latter or no improvement, the reason being that the vibrations

Card 2/4

The application of ultrasonic ...

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were not directed along the cutting edge of the drill. The authors make the following conclusions: 1) The use of ultrasonic vibrations greatly reduces the cutting force, especially in the case of hard materials. 2) The vibrations must be directed along the cutting edge of the tool. 3) The tool must have the requisite geometry for successful use under vibrations of ultrasonic frequencies. 4) The reduction in cutting force requires less rigid machines. There are 3 figures, 2 tables and 2 Soviet-bloc references.

Card 3/4

	The Art of the December of the State of the		ગંભને મેન્દ્રીએ દેવી હોઇનોઇ
	Freidkin, S. A. Solution of a class of singular integral	. /	
Meri	where L is the union of an infinite set of disjoint intervals on the real line Consider the space of functions a^{-1} and a^{-1} and a^{-1} are the space of functions a^{-1} and a^{-1} are the space of		
,	$p(x) = \left(-\prod_{k=1}^{\infty} \left[(a_k - x)^2 (b_k - x)^2 \right]^{\frac{1}{2}}$ If L is bounded and $a^2 \neq b^2$, then the equation has a unique solution in the space considered. D. C. Kleinecke.		
		P. C.	
		a paudice pure escar (rem) are are	

Ireddkin, S. A. The operator of singular integration on a broken contour in spaces with a weight. Kisinev. Gos. Univ. U.E. Zap. II (1954), 19-27. (Russian)
The author considers the operator

(sp)(s)=((m)-1/L p(t)(t-t_0)-1dt).

where L is a finite set of arcs, on a class of Banach spaces admitting functions with poles at some of the ends of the arcs. The theorems concern the closure of the range of S and its deficiency.

D. C. Kleinecht

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S/044/60/000/007/038/058 C111/C222

AUTHOR:

Freydkin, S.A.

TITLE:

The solution of a functional equation

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 134.

Abstract no.7789. Uch.zap.Kishenevsk.un-t, 1959, 39, 239-242

TEXT: The author solves the functional equation $f(x) - \lambda f(x+\omega) = \sin x$, where $\lambda = e^{\pm i \omega}$. At first he considers the case $\omega \neq k\pi$. The solution is

$$f(x) = \frac{xe^{-ix}}{2i\omega} + \frac{e^{ix}}{2i(1-e^{-2i\omega})} + e^{-ix}\chi(x)$$
 for $\lambda = e^{i\omega}$,

and

$$f(x) = \frac{e^{-ix}}{2i(1-e^{-2i\omega})} - \frac{xe^{ix}}{2i\omega} + e^{ix}\chi(x) \qquad \text{for } \lambda = e^{-i\omega}.$$

For
$$\omega = k\pi = 2n\pi$$
 it holds $f(x) = \frac{x}{4\pi ni} (e^{-ix} - e^{ix}) + \chi(x)$; for $\omega = (2n-1)\pi$

it holds
$$f(x) = \frac{x(e^{-ix}-e^{ix})}{(2n-1)\pi i} + \chi(x)$$
 ($\lambda = e^{i\omega}$).

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The solution of a functional equation

S/044/60/000/007/038/058 C111/C222

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LAbstracter's note: The above text is a full translation of the criginal Soviet abstract.]

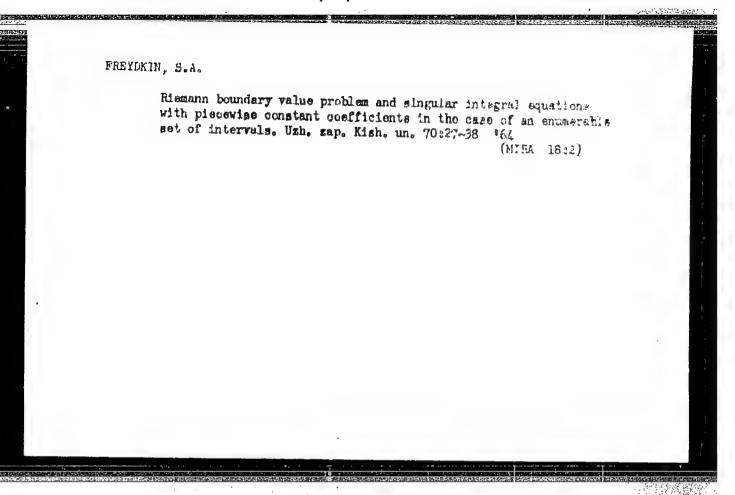
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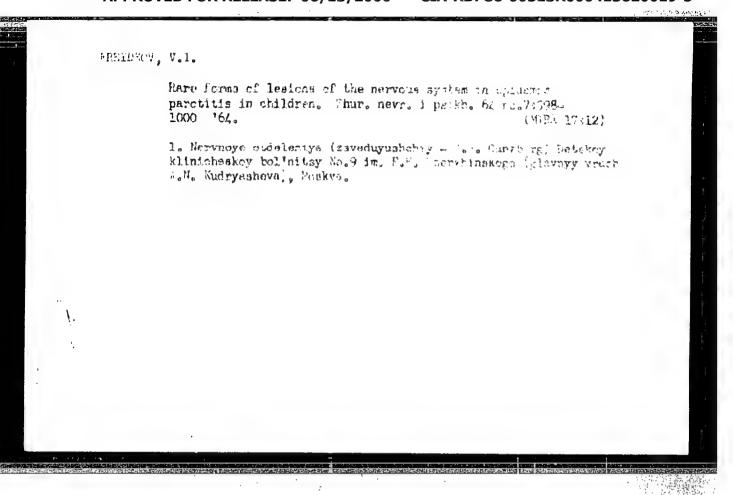
FREYDKINA, V.D.

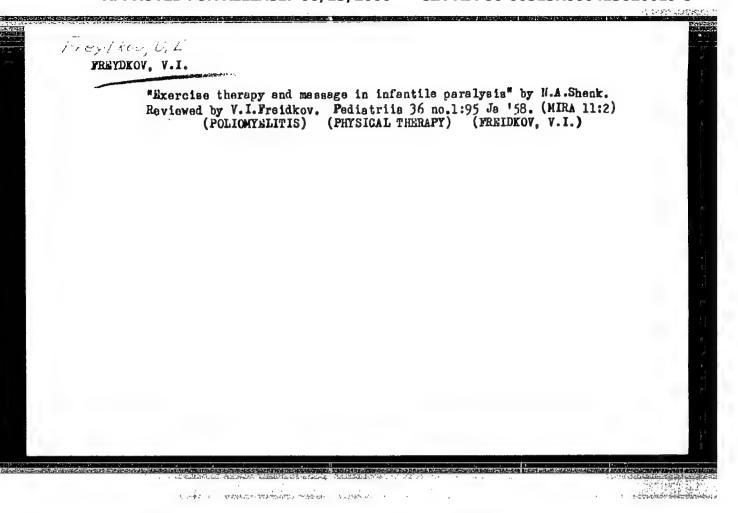
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1. Iz nevrologicheskogo otdeleniya Detskoy bol'nitsy imeni F. E. Dzerzhinskogo (glavnyy vrach A. N. Kudryashova).

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